

Attorney Docket No.: KUZ0033US.NP
Inventors: Yoshikawa et al.
Serial No.: 10/588,338
Filing Date: August 3, 2006
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This listing of the claims will replace all prior versions and listings of claims in the application:

Listing of the claims:

Claim 1 (original): A backlight device for a liquid crystal display, comprising at least a light diffuser plate, a light source disposed at a backside of the light diffuser plate, and a reflector for reflecting light from the light source, wherein a liquid crystal panel is disposed at a frontside of the light diffuser plate, and direct light from said light source and reflected light from said reflector diffuse into and transmit through said light diffuser plate to illuminate said liquid crystal panel from backside, said backlight device for a liquid crystal display being configured such that:

said light source radiates ultraviolet rays and heat along with visual light, and

said light diffuser plate is constrained at at least one side thereof, and has a saturated water absorption rate of not more than 0.9% as well as a color difference (ΔE) of not greater than 2.0 as specified in JIS K 7105 after being exposed for 500 hours to an artificial light used for an artificial light source test specified in JIS K7350-2.

Claim 2 (original): The backlight device for a liquid crystal display according to claim 1, wherein said light diffuser plate consists of light diffusive (meth)acryl-styrene copolymer resin.

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Claim 3 (previously presented): The backlight device for a liquid crystal display according to claim 1, wherein said light diffuser plate contains 0.005 to 2 parts by mass of an ultraviolet absorbing agent with respect to 100 parts by mass of the resin constituting said light diffuser plate.

Claim 4 (previously presented): The backlight device for a liquid crystal display according to claim 1, wherein the light diffuser plate contains 0.1 to 20 parts by mass of particulates with a particle diameter 1 to 30 μm with respect to 100 parts by mass of the resin constituting said light diffuser plate.

Claim 5 (previously presented): The backlight device for a liquid crystal display according to claim 1, wherein a maximum value of light energy at wavelengths 300 to 400 nm at a surface of the light-source side of the light diffuser plate is not less than 20 $\mu\text{W}/\text{cm}^2$.

Claim 6 (previously presented): The backlight device for a liquid crystal display according to claim 1, wherein the maximum value of light energy at wavelengths not greater than 300 nm at the surface of the light-source side of the light diffuser plate is not less than 50 $\mu\text{W}/\text{cm}^2$.

Claim 7 (previously presented): The backlight device for a liquid crystal display according to claim 5, wherein the maximum value of light energy at wavelengths not greater than 300 nm at the surface of the light-source side of the light diffuser plate is not less than 50 $\mu\text{W}/\text{cm}^2$.

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Claim 8 (new): The backlight device for a liquid crystal display according to claim 2, wherein said (meth)acryl-styrene copolymer resin comprises copolymer of 30 to 70% by mass of (meth)acrylate ester monomer and 70 to 30% by mass of styrene monomer.

Claim 9 (new): The backlight device for a liquid crystal display according to claim 2, wherein said (meth)acryl-styrene copolymer resin comprises copolymer of 40 to 60% by mass of (meth)acrylate ester monomer and 60 to 40% by mass of styrene monomer.

Claim 10 (new): The backlight device for a liquid crystal display according to claim 2, wherein said (meth)acryl-styrene copolymer resin comprises copolymer of 45 to 55% by mass of (meth)acrylate ester monomer and 55 to 45% by mass of styrene monomer.